## COPY **AVAILABL**

euHisAspLys

GACACATGAG

TGAGAAGGCA

GCCCAGCTGC GCTCCTTCTT

CGAGGAAGAA

eGluLysAla

sLeuCysLeu AlaGlnLeuA rgSerPhePh

CGGGTCGACG

GGAGACGGAT

GGGGAGCGGC GGCGTAACAC CATCGCCCCC

CCGCATTGTG

CCCCTCGCCG

GTAGCGGGGG

SerCysAlaLeu

isCysHisPro

PheGlnThrH

gLeuMetAsp

TGACAGTAGG

ACTGTCATCC

TTCCAGACCC

CCTGATGGAC

GCAGATCACG

CGTCTAGTGC

GGACTACCTG AAGGTCTGGG

TCTTAAGCCG TGCTCCGCGC CGCGGGTCGC GTCCGTCTCG CGACAGCGTA GGGCCCGCAG GTGGGCGGTA CCCCGAGAGG **6666070700** GCTGTCGCAT CCCGGGCGTC CACCCGCCAT GAATTTGGCC CTCGAGGCCA AGAATTCGGC ACGAGGCGCG GCGCCCAGCG CAGGCAGAGC CTTAAACCGG GAGCTCCGGT

tGlyLeuSer

uLeuMetile LeuLeuLeuV alLeuSerLe uTrpLeuPro LeuGlyAlaG lyAsnSerLe uAlaThrGlu AsnArgPheVal GTGGCTGCCA CTTGGAGCAG GAAACTCCCT TGCCACAGAG AACAGGTTTG ACGGTGTCTC CTTTGAGGGA GAACCTCGTC

TGGAGGTCAA ACCTCCAGTT GGGCTCCTGC

TCCCGCTTGC AAGGCTGCCT ACCAGCACCT

GCGAGGCTAA

AGAAAGAAAT TCTTTCTTTA

TACCCAGGCC

TGAACAGCTG ACTTGTCGAC

201

ATGGGTCCGG

AsnSerCy

GCTGCCCTTA CGACGGGAAT LeuProLeu

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CACCGACGGT

TGCTGTCGTT

CTGCTACTGG

GCTGATGATC CGACTACTAG

CTGGAGGTGA

rgProProLe

GACCTCCACT

TGGAGCCCGC ACCTCGGGCG TrpSerProA

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GACGATGACC ACGACAGCAA

TAAGCAGGCC

euSerArgPro ATTCGTCCGG

sThrGlnAla ArgLysLysC ysGluAlaAs nProAlaCys LysAlaAlaT yrGlnHisLe uGlySerCys ThrSerSerL CCCGAGGACG CGCTCCGATT AGGCGAACG TTCCGACGGA TGGTCGTGGA

GCAGGTGCCA CCATGTCTGC AGACTGCCTA GAGGCAGCAG AACAACTCAG GAACAGCTCT CTGATAGACT CTCCGTCGTC TTGTTGAGTC TCTGACGGAT GGTACAGACG GAGGAGTCTG CTCCTCAGAC

CGTCCACGGT GluGluSerA laMetSerAl aAspCysLeu GluAlaAlaG luGlnLeuAr gAsnSerSer LeuIleAspC ysArgCysHi GACTATCTGA CTTGTCGAGA

TGGATGTCTC ACCCTATGAA TTCGGAACCA CTGATGCTCA ACCTACAGAG TGGGATACTT GACTACGAGT CTACCTGTCT GGACATTTAT TGGACCGTTC ACCCTGCCCG AAGCCTTGGT ACCTGGCAAG TGGGACGGGC

CCTGTAAATA

GATGGACAGA

AAGCACCAAG

401

TTCGTGGTTC

laThrCysLe uAspIleTyr

LysHisGlnA

105

501

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GACACAGTGA

gSerLeuGly AspTyrGluL euAspValSe rProTyrGlu AspThrValThr TrpThrValH isProAlaAr

GACTCGGACC TCTGCCTCAA ATTTGCTATG CTGTGTACTC AGACGGAGTT TAAACGATAC AGTTGAACAT GCTCAAACCA CTGGAAAATG AATCTTAGCA

OTrpLysMet AsnLeuSerL ysLeuAsnMe tLeuLysPro AspSerAspL euCysLeuLy sPheAlaMet LeuCysThrL CTGAGCCTGG CGAGTTTGGT TTAGAATCGT TCAACTTGTA GACCTTTTAC SerLysPr GGTCGTTTGG CCAGCAAACC

CCCTAGGCGA GGGATCCGCT CCGTACGAGT GGCATGCTCA CCTACGGGGA GGATGCCCCT CTGCGCAAGG GACGCGTTCC GTGTGACCGC CACACTGGCG 601

GCCAGCGCCA CCTCTGCCTA CGGTCGCGGT GlylleArgC ysGlnArgHi LeuArgLysA laTyrGlyGl uAlaCysSer CysAspArg 172

TGCGGGCTGT GTGGTCTTCT CACCAGAAGA TCTGCTGCTG TGTCCCTGTG AGACGACGAC ACAGGGACAC GCAGAGTCCC ACGCTCAGGG TGCGAGTCCC CGTCTCAGGG 701

ACGCCCGACA

laProGluAs pAlaGlyCys GlyGluArgA rgArgAsnTh rlleAlaPro AlaGluSerH isAlaGlnGl yLeuLeuLeu CysProCysA

TGCGGAGCTT CTGCCGTGCG GACCCTTTGT ACGCCTCGAA AACCCCCAAT TGCCTGGATC ACGGACCTAG TTGGGGGTTA TGCCTTCTGT ACGGAAGACA 801

eCysArgAla AspProLeuC ysArgSerAr CTGGGAAACA GACGGCACGC CysLeuAspL euArgSerPh 1ThrProAsn ProSerVa 239

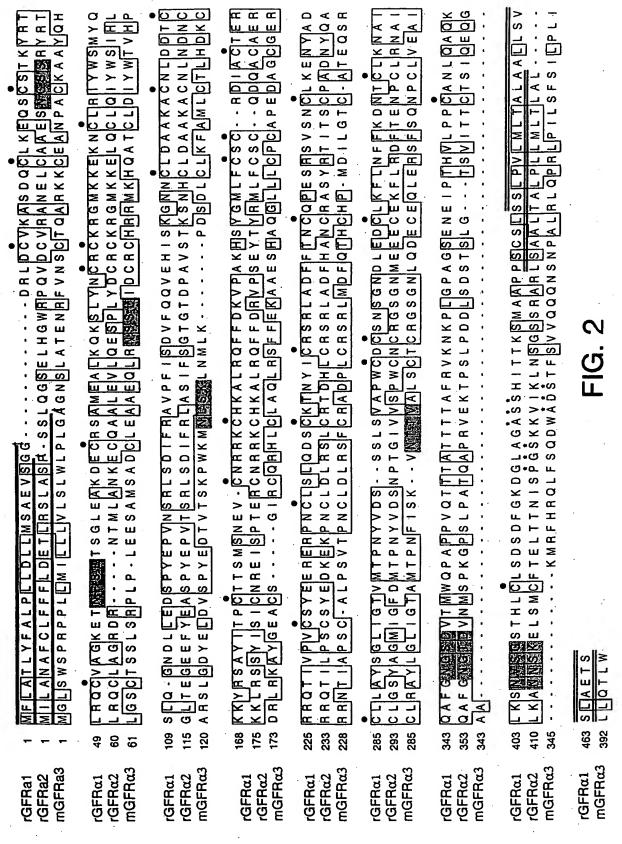
CCCCAAACTT GCTGATTGGG ACTGCCATGA TGACGGTACT CGACTAACCC TGTCTGCGGG CATACCTGGG GTATGGACCC ACAGACGCCC GCAGTCCAGA CGTCAGGTCT GTGCAACTGA CACGTTGACT CTTGGGACTT GAACCCTGAA TATGGACATC ATACCTGTAG 901

CATCAGCAAG GTAGTCGTTC elleSerLys CysLeuArgA laTyrLeuGl yLeulleGly ThrAlaMetT hrProAsnPh GGGGTTTGAA uGlnSerArg ysAlaThrGl MetAspile LeuGlyThrC 272



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CTTCTCCCAG A GAAGAGGGTC T rPheSerGln A	GTGCAGCAGC A CACGTCGTCG T ValGlnGlnG 1		CGTGCTACAC A GCACGATGTG 1	CAGCGGCTAG 1	GTGATTAGCG C	TAAGGGTTCT C	TCTTGACTGC TCTGCCAGGC AGAACTGACG AGACGGTCCG	CCCTTGGGTC 1	
		T AGG		T GAC		SC TA	SG TC	75 es	
TGGAAAGGTC ACCTTTCCAG euGluArgSe	TTTTTCAGTG AAAAAGTCAC rPheSerVal	ACCCTCTGGT AGCTGGGCTT TGGGAGACCA TCGACCCGAA ThrLeuTrp	GAAGACGCAG	TTCCGATCCT AAGGCTAGGA	TGTTCTGATG ACAAGACTAC	GAAGGCAGGC CTTCCGTCCG	CCTGCTGGTG GGACGACCAC	TTCCCCTAGT AAGGGGATCA	
TGTGAACAGC ACACTTGTCG CysGluGinL	CAGACTCTAC GTCTGAGATG 1aAspSerTh	TCTGCTGCAG AGACGACGTC eLeuLeuGln	GCCTGTGGAA	GCTGTGACCC	TTTTGCCTTC AAAACGGAAG	CCTTCTCCAG GGAAGAGGTC	aagataaaa TTCTATTTT	TGTCCCCAAA ACAGGGGTTT	
	CAGGACTGGG GTCCTGACCC GlnAspTrpA	TTCCCTTGAT AAGGGAACTA euProLeull	GAACTCGCCA	AGAAGTGAGG TCTTCACTCC	GTGGGTCCAG	TTCCCTGTTG AAGGGACAAC	CTCTGAATGG GAGACTTACC	CTCCTATTAC GAGGATAATG	
GCGGCAACCT ACAGGACGAG CGCCGTTGGA TGTCCTGCTC erGlyAsnLe uGlnAspGlu	GCTCTTCTCC (CGAGAAGAAGAGG )		TGGTGGGAGA	AAGAGGTCTT	TTAGGACTTT	GAATCAGTCA	CTCCACGTCC GAGGTGCAGG	TCTTGTTTAA AGAACAAATT	
	TCCACAGACA AGGTGTCTGT heHisArgGl	CATTCTTTCT TTCTCCATCC GTAAGAAAGA AAGAGGTAGG olleLeuSer PheSerlleL					GTGCTCCAGC CACGAGGTCG		aaaa Tttt
AAGCTGCACC TGCCGAGGCA TYCGACGTGG ACGCCTCCGT uSerCysThr CysArgGlyS	AAGATGCGTT TTCTACGCAA LysMetArgP	CCAGGCTACC GGTCCGATGG roArgleuPr	CCAGACTGAT	GCACCATCCCG TCTGCTCCAG CGTGTAGGGC AGACGAGGTC	CTGGCTCAGG	AGGACCACCC AGAGGCTAAG TCCTGGTGGG TCTCCGATTC	TGGAAGGCTG GTGCT ACCTTCCGAC CACGA	GAAGAGCTAA CTTCTCGATT	aaaaaaaa TTTTTTTT
CTGTTGCCTT GACAACGGAA hrValAlaLe	CATTGCAGCT GTAACGTCGA alleAlaAla	AGACTGCAGC CCAGGCTACC TCTGACGTCG GGTCCGATGG ArgLeuGlnP roArgLeuPr	TCCACCACAC CCAGACTGAT TTGCAGCCTG AGGTGGTGTG GGTCTGACTA AACGTCGGAC	GCATTCCGCA GCACATCCCG TCTGCTCCAG CGTAAGGCGT CGTGTAGGGC AGACGAGGTC	TCCCTTGCCC CTGCTTCCTT CTGGCTCAGG CTGCTCCTCC AGGGAACGGG GACGAAGGAA GACCGAGTCC GACGAGGAGG	CCTGTTTCCC AGGACCACCC AGAGGCTAAGGGGACAAAGGG TCCTGGTGGG TCTCCGATTC	<b>TTCCTTTGTG</b> AAGGAAACAC	1801 AATCCTGAAC ATTTGGGCAT GAAGAGCTAA AGTCTTTGGG TTAGGACTTG TAAACCCGTA CTTCTCGATT TCAGAAACCC	ATTITIGACTT AAAAAAAAAA AAAAAAAAAAA AAAAA TAAAACTGAA TITITITITIT TITITITITI TITITI
1001 GTCAACACTA CAGTTGTGAT 305 ValasnThrT	TCGTGGAGGC AGCACCTCCG ValGluAl	CCCTGCTCTG GGGACGAGAC ProAlaLeu	CTTTGTCCTC GAAACAGGAG	1401 AACCAACCAG TTGGTTGGTC	TCCCTTGCCC	AGCGCTTCTT TCGCGAAGAA	1701 AGAAAAATGT TCTTTTTACA	AATCCTGAAC TTAGGACTTG	ATTTTGACTT TAAAACTGAA
1001	1101	1201	1301	1401	1501	1601	1701	1801	1901

FIG. 1B



LNMLKPDSDLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLROI	NMLKPDSDLCLKFAMLCTLHDKCDRLRKAYGFACS	
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hGFRa3	mGFRa3	

CMCHRRMKNOVACLDIYWTVHRARSLGNYELDVSPYEDTVTSKPWKMNLS CRCHRRMKHQATCLDIYWTVHPARSLGDYELOVSPYEDTVTSKPWKMNLS

101

hGFRa3 mGFRa3

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321	348	
 hGFRa3	mGFRa3	

PCLTEAIAAKMR	270 TPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHN	18614
PCLTEAIAAKMR	TPNFVSNVNTSVALSCTCRGSG	18613
LRAYLGLIGTAM	220 LRRLCFSDPLCRSRLVDFQTHCHPMD1LGTCATEQSRC	18614
LRAYLGLIGTAM	251 L R R L C F S D P L C R S R L V D F Q T H C H P M D I L G T C A T E Q S R C	18613
3		
CALPPVAPNCLE	170 LTFFEKAAEPHAQGLLLCPCAPNDRGCGERRRNTIAPN	18614
CALPPVAPNCLE	201 LTFFEKAAEPHAQGLLLCPCAPNDRGCGERRRNTIAPN	18613
PHCORHVCLROL	127 DSDLCLKFAMLCTLNDKCDRLRKAYGEACSG	18614
PHCQRHVCLRQL	151 KLNMLKPDSDLCLKFAMLCTLNDKCDRLRKAYGEACSG	18613
	101 CMCHRRMKNQVACLDIYWTVHRARSL	18614
TVTSKPWKMNLS	101 CMCHRRMKNQVACLOIYWTVHRARSLGNYELDVSPYED	18613
AAQQLRNSSLIG	51 CQADPTCSAAYHHLDSCTSSISTPLPSEEPSVPADCLE	18614
AAQQLRNSSLIG	S1 CQADPTCSAAYHHLDSCTSSISTPLPSEEPSVPADCLE	18613
H L M N S C L Q A R R R	1 MVRPLNPRPLPPVVLMLLLLPPSPLPLAAGDPLPTES	8614
		200
BLMNSCLOARRK	A V B D I N D B D I D D V V I M I I I I P D S P I P I A A G D P I P T E S	2673

FHSOLFSODWPHPTFAVMAHONENPAVRPOPWVPSLFSCTLPLILLSLW FHSOLFSODWPHPTFAVMAHONENPAVRPOPWVPSLFSCTLPLILLSLW

338 TCTCCCCCTATGAAGACACAGTGACAGCAGCAGCAGCAGCAGCAACAGGAGATTGTCA	427 AAA COCTGGGAAA ATGAATCT CAGCAAACT GAACAGT GCT CAAAC CAGACT C 388 GATATATT CGGGGT GCCATTCATAT CAGGGAG CACATT C CAGGGGAG CACATT C C CAAAGGG 424 GCTT CAAT CTT CT CAGGGACAGGGGCAGA C C CGGT GGT CAG C G C C A A GAG	477 A GACCICTGCTCAAGTTTGCCATGCTGTGTACTCTCAATGACAAGTGTG 438 GAACAACTGCCTGGATGCAGCGAAGGCCTGCAACCTCGACGACATTTGCA 474 CAACCATTGCTGGATGCTGCCAAGGCCTGCAACCTGAATGACAACTGCA	527 ACC GGCT GC GCA AGG C C T A CG G G A G G C G T G C T C CGGG C C C C A C T G C 488 A G A G T A C A G G T A C A T C A C C C G T G C A C C A G C G T G T G T C C 524 A G A A G C T G C T C T C T C T C C A T C T C C C A T C T C	574 CAGCGCCACCTCT GCCTCAGGCAGCTGCTCACTTTCTTCGAGAAGGCCGGC 535 A ATGATGTCTGCAACCGCGCAAGTGCCACAAGGCCCTCCGGCAGTTCTT 574 ACCGAGCGCTGCAACCGCGCAAGTGCCACAAGGCCCTGCGCCAGTTCTT	esa C G A G	668 ACGA C C G G G G C T G C G G G G G G C C G G C G C
DAMA48613.orf CINFRA1.orf CINFRA2.orf	DVA48613.orf GINFRa1.orf GINFRa2.orf	INMA8613.orf CINFRal.orf CINFRa2.orf	INPA8613.orf GINFRal.orf GINFRa2.orf	INM48613.orf GINFRal.orf GINFRa2.orf	UNA48613.orf CINFRA1.orf CINFRA2.orf	ING48613.orf GINFRal.orf GINFRa2.orf
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TTCTCCCA CAACCCCTGC CCTCACGGAGGCCATTGCAGCTAAGATGCGTTT

GCCTCCGGAACGCCATCCAGGCCT

CCGAGAA

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**TONFRa2** 

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CTTCTGCGACCCGCTTTGCAGATCACGCCTGGTGGATTTCCAGACCCACTCAAACTCAAGACCCACTCAAGACCCAACTCAAGACCCAACTCAAGACCCAACTCAAGACCCAACTCAAGACCAACTCAAGACAACTCAGCCAATTTACAAATT
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1379 CATAG

GINFRal.orf

1053 T CACAGCCAA CT CTTCT C C CAGGACTGGC CACACA C C TAC C TTT GCT G TGA C C C TAC C TTT GCT G TGA C G T G T G T G T G T G T G T G T G T G	F 1103 T G G C A C A C A A T G A A A A A A C C C T G C T G T G A G G C C A C A G C C C T G G G T G C C C C C C C C A C A A A A A A A A A	1129 GGGTCTTTTCTCCTGCACGCTTCCCTTGATTCTGCTCCTGAGCCTATGGTA 1129 GGGTCTGAGAATGAAATTCCCACTCATGTTTTGCCACGTGTGCAAATTT 1174 ACCAGCTTGGGGACCAGTGTCATCACACCTGCACGTCTGTCCAGGAGCA	1179 A C A G G C A C A A G C T G A A A T C C A A T G T G G G G C A A T A C A C C T C T G T A C A G G C A T G T G G G C A T A C A C A G A G A G A G A G A G A G A G	1229 TITTCCAATGGTAATTATGAAAAAGAAGGTCTCGGTGCTTCCAGCCACATA 1274 TCACGACAAATATCATCCAGGGAGTAACAAGGTGATCAAACCTAACTCA	1279 A COACAAT AT CAAT GGT GGT COT COA A GCT GT GGT CT GA G C COACT GT	1329 GGTCCTGGTGGTAACCGCTCTGTCCACCCTATTATCTTTAACAGAACAT
INP48613.orf 1053 GINFFal.orf 1029 GINFFa2.orf 1074	INA48613.orf GINFRal.orf GINFRa2.orf	CONFRALORE CONFRALORE CONFRALORE	DNR48613.orf CDNFRal.orf CDNFRa2.orf	CINFRAL orf	GINFRA1.orf	CINFRAL. Or f

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I MVRPL NPRPLPPVVL MILLLEPPSPLPLA AG DPLPTE SRLMNSCL QARRK
DNA48613
         1 MFLAT . . . LYFAL . . PL LDL LLSA . . EVSGGD . . . . . RL . . DCVKASDQ
CONFRa1
         1 MILANVFCLFFFLDETLRSLASPS - SLOGPELHGWRPPV - DCVRANEL
GDNFRa2
        51 COADPTCSAAYHHLDSCTSSISTPLP-SEEPSVPADCLEAAQOLRNSSLI
DNA48613
        36 CLKEQSCSTKYRTLRQCVAGKETNFSLASGLEAKDECRSAMEALKQKSLY
GDNFRa1
        47 CAA EIS NC SIS RIY R T L R Q CL A GIR D R NI . . . . T M L AIN KE CIQ A AIL EV LIQ ESPL Y
GDNFRa2
        100 GCMCHRAMKNOVACLDIYWTVHRARSLGNYELDVSPYEDTVTSKPWKMNL
DNA48613
        86 NCRCKRGMKKEKNCLRIYWSMYQSL. QQNDLLEDSPYEPVNSRLSDIFRV
GDNFRa1
        92 DCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTSRLSDIFRL
GDNFRa2
        150 SKL..... NML KPOSOLCLK FAMLCTL NOKCORL RKA YGEACS....
DNA48613
        135 VPF 18 . . . VEH 1 . . PKGNNCL DAAKACHLODICKKYRSAY ITPCTTS VS.
GDNFRa1
        142 ASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISP
GDNFRa2
        188 GPHCORHVCLROLLTFFEKAAEPHAOGLLLCPCAPNDRGCGERRRNTIAP
DNA48613
        179 NOVCHRAKCHKALROFFDKYPAKHSYGMLFCSC - ROLLACTERRROTIVP
GDNFRa1
        192 TERCHRRKCHKALROFFDRVPSEYTYRMLFCSC - QDQACAERRROTILP
CONFRa2
        238 NCALPPVA - PNCLEL ARLCFSDPLCASALVDFQTHCHP- MDILGTCATEQ
DNA48613
        227 VCSYEEREKPNCLNLODSCKTNYICRSRLADFFTNCOPESRSVSSCLKEN
GDNFRa1
        240 SCSYEDKEKPNCLDL RGVCRTDHL CRSRLADFHANCRASYQTVTSCPADN
GDNFRa2
        286 - S R C L R A Y L G L I G T A M T P N F V S N V - · N T S V A L S C T C R G S G N L Q E E C E M L E
DNA48613
        277 TADCLLAYSGLIGTVMTPNYIDSS - SLSVAPWCDCSNSGNOLEECLKFL
GDNFRa1
        290 YOACLGSYAGMIGFOMTPNYVDSSPTGIVVSPWCSCRGSGNMEEECEKFL
GDNFRa2
        333 GFFSHNPCLTEAIAA............KMRFHSQLFS
DNA48613
        325 NEFKONTCLKNAIQAFGNGSDVTVWQPAFPVQTTTATTTALRVKNKPLG
CDNFRa1
        340 ROFTENPCLRNAIQAFGNGTDVNVSPKGPSFQATQAPRVEKTPSLPDDLS
GDNFRa2
        358 Q . . . . . . D WP HP TF AV MAH QNENPAVR PQ . . . . . . . . . . . . .
DNA48613
        375 PAGSENEIPTHVLPPCANLOAOKLKSNVSGNTHLCISNGNYEKEGLGASS
GDNFRa1
       390 DSTS - . LGTSVITTCTSVOEQGLKANNSKELSMCFT - ELTTNIIPGSN
GDNFRa2
       381 . . . PWVPSLFSCTLPLILLSLW. . . . .
DNA48613
       425 HITTKSMAAPPSCGLSPLLVLVVTALSTLLSLTETS
GDNFRa1
       435 KVIKPNSGPSRARPSAALTVLSVLMLKQAL
GDNFRa2
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FIG. 6

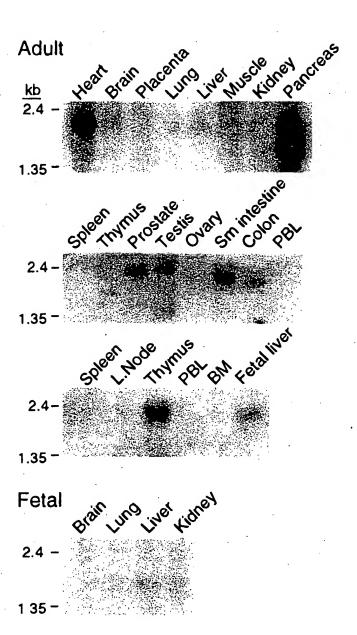
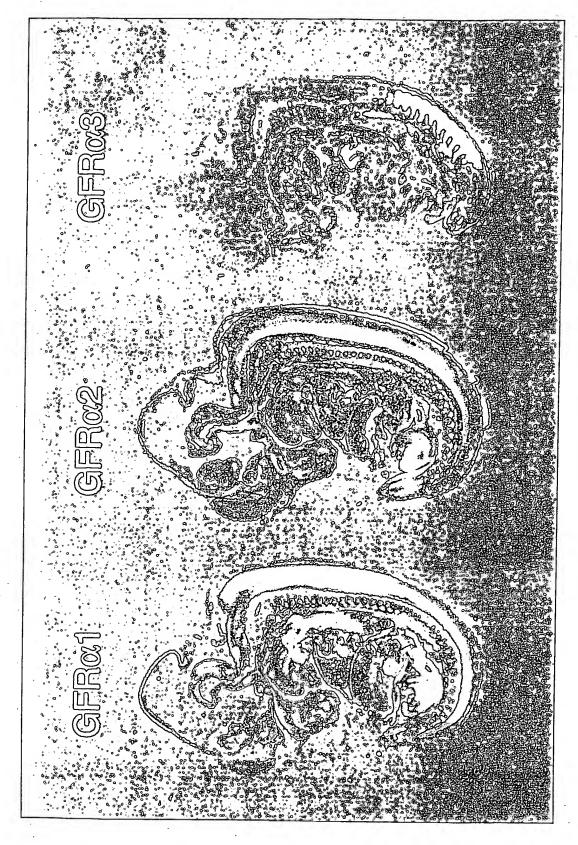
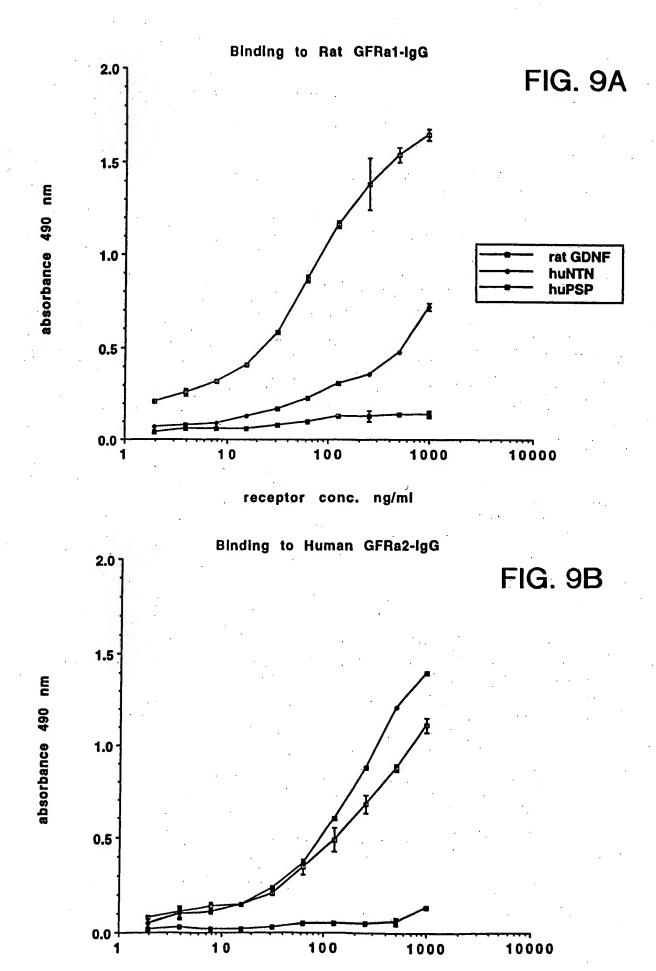
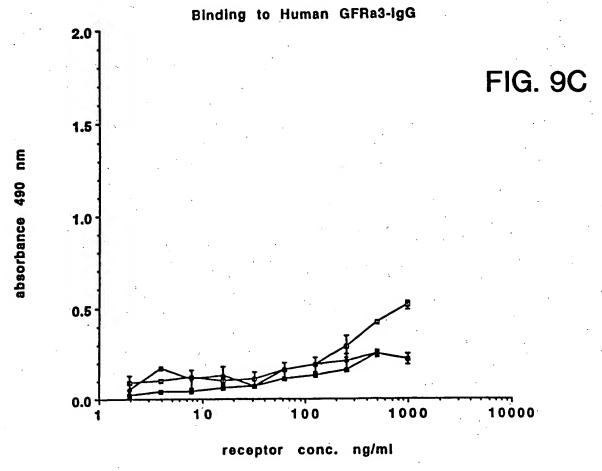
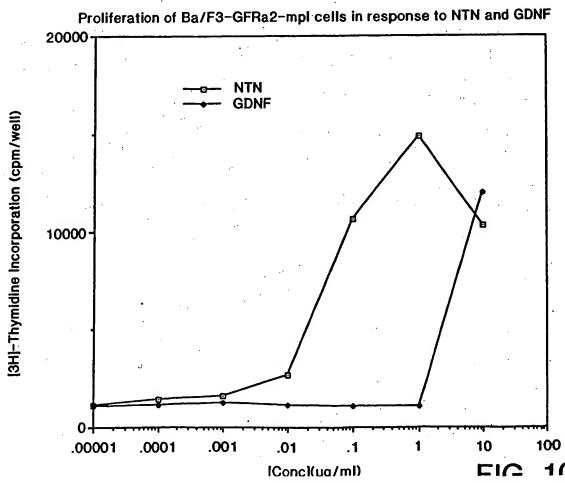


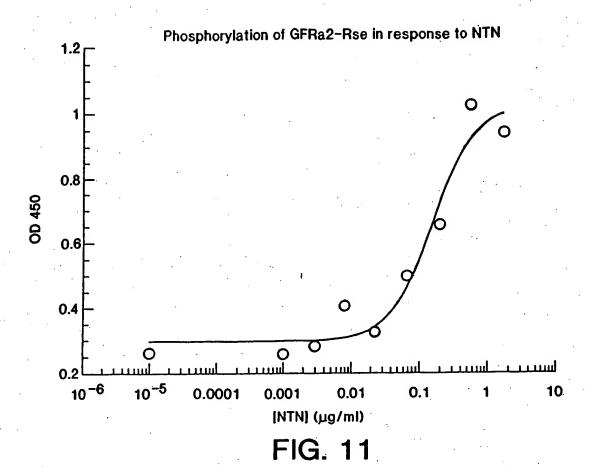
FIG. 7

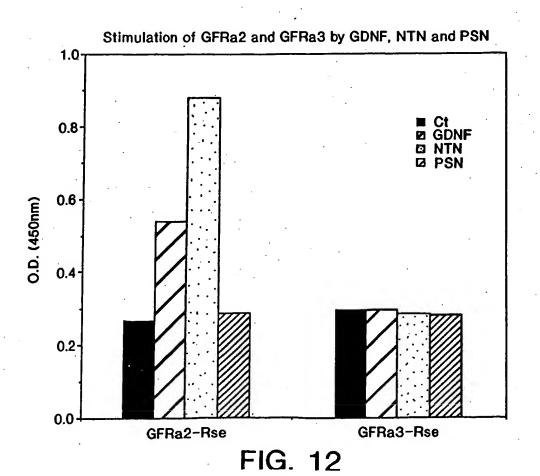












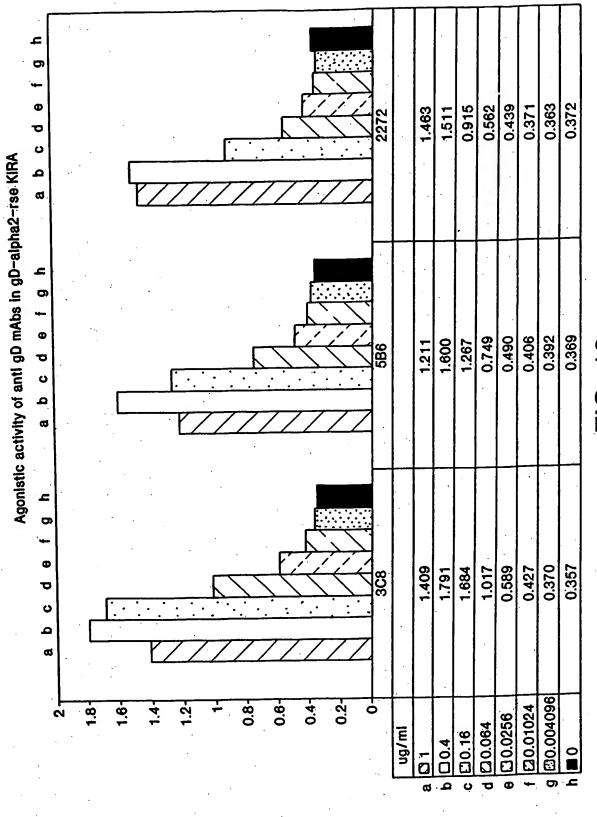


FIG. 13

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